

CONSTRUCTION VALUE ENGINEERING CONCEPT PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION

Date 7/21/2010

Contract

ID 090123-303
County Lincoln Route 61 & U
Iron Mountain Construction

Job No. J3P2146 & J3P2146C
Original Bid Cost \$8,374,042.13

Contractor Services
Designed By MoDOT

By Chris A. Wilmes
Phone (636) 978-9835

VE # 10-68

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

Existing:

Construct Phase IV, Ramps 2 and 3 pavement and A2 shoulders, as shown on Job J3P2146 plans.

Proposed:

Leave in place existing Rte. 61 shoulders south of Ramp 2 gore and north of Ramp 3 gore. This will under run full depth shoulder removal, 8 1/2" Concrete Pavement, A2 Shoulders and 8-in. Rock Base at these locations.

Approximate areas to use asphalt pavement in place:

Ramp 2 (Rte. U) - Sta. 1250+72 - 1252+10

Ramp 3 (Mette Rd.) - Sta. 1268+00 - 1269+32

2. Estimate of reduction in construction costs. \$30,176.61

MoDOT Savings - \$22,632.46

Iron Mountain Savings - \$7,544.15

(See attached spreadsheet with quantity adjustments)

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.

The existing shoulder to be left in place is over 12-in. thick. This pavement will replace the proposed 8 1/2" pavement and 5 3/4" A2 shoulder. No joint line between shoulder and pavement will exist. No concrete taper will be built as a saw cut the width required near the gore will be cut for full width concrete pavement to be matched.

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

None

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

7/30/10

Scheduled start date

(date)

(effect)

6. Dates of any previous or concurrent submission of the same proposal.

N/A

7/14/10

Additional Comments:

The existing asphalt pavement we propose to leave in place is over 12 inches thick and was installed in conjunction with a safety enhancement project several years ago to improve safety at the intersections of Rte. U/61 and Mette Road/Rte. 61. The cores extracted from these shoulders, near Mette Rd., are approx. 13 inches thick. The width and depth of pavement is more than substantial if left in place as a substitute for the proposed improvements. Should any adjustments be necessary at the tie in points, BPI can be placed at the agreed contract price, which will adjust the PDVE shared savings.

**** Portion Below This Line To Be Filled Out By MoDOT ****

Comments: THE PROPOSED LEAVE IN PLACE ASPHALT PAVEMENT HAS SUFFICIENT STRUCTURE TO SERVE AS SHOULDER FOR ROUTE 61, ALSO REDUCES RISK TO TRAFFIC BY ELIMINATING LANE DROP FOR CONSTRUCTION. I RECOMMEND APPROVAL AS A PRACTICAL DESIGN VE, 25/75 % SHARED SAVINGS.
Joseph Jernigan Submitted by Resident Engineer 7/22/10 Date

Comments:

Agree with RE comments

- ☒ Approval
Recommended
☐ Rejection
Recommended

Macy Rodenbaugh District Engineer 7/22/10 Date
For Paula Gough

Comments:

Per comments above. DMG 7/27/10

- ☒ Approval
Rejection

David D. Oliver State Operations Engineer 7/27/2010 Date
By Dennis H. Glascock

Distribution:

Resident Engineer, District Operations Engineer, State Operations Engineer
*Value Engineering Administrator - *MoDOT, P.O. Box 270, Jefferson City, MO 65102

Value Engineering Proposal

Modified Ramp 2 and 3 Construction Plan
Estimated Quantities and Savings

Route 61 U - J3P2146 Project

Line Item Number	Description	Units	Units Previously Provided For	Units To Be Constructed	Units Overrun, Underrun	Unit Price	Amount Of Overrun	Amount Of Underrun
1060	Concrete Pavement (8 1/2" NR)	SY	14,197.60	13814.80	382.80	\$35.00		\$13,398.00
1100	A2 Shoulder	SY	6,668.60	6315.20	353.40	\$25.50		\$9,011.70
5002	8 IN. Rock Base	SY	10,818.60	10082.40	736.20	\$7.05		\$5,190.21
5003	Removals (Existing Shoulder)	SY	842.70	1578.90	-736.20	-\$3.50		\$2,576.70
							\$0.00	\$30,176.61

VE Savings to be shared

(\$30,176.61)

Total Savings - MoDot

(\$22,632.46)

Total Savings - Fred Weber, Inc.

(\$7,544.15)

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- ☐ Bridge/Structure/Footings
- ☐ Drainage Structures (RCP, RCB, CMP's, ect.)
- ☐ TCP/MOT
- ☒ Paving (PCCP, ect.)
- ☐ Grading/MSE Walls
- ☐ Signal/Lighting/ITS
- ☐ Misc

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

This VE involves use-in-place pavement that is in good condition and thicker than the designed replacement, in certain designated areas of the job.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.
